



## RENOLIN UNISYN CLP

Polyalphaolefin-based industrial gear and general lubricating oil

### Description:

The **RENOLIN UNISYN CLP** series of oils are fully-synthetic, polyalphaolefine-based lubricants. They display remarkable oxidation stability, excellent corrosion protection, very good viscosity-temperature behavior and good cold flowing properties which makes them suitable for a wide range of temperatures. The **RENOLIN UNISYN CLP** series of oils are fully miscible and compatible with mineral oils in any ration. Their compability with all commonly used materials, seals and surface finishes is similar to that of mineral oil. This simplifies the change from mineral oil to **RENOLIN UNISYN CLP** and eliminates the necessity of prior flushing.

The **RENOLIN UNISYN CLP** series of oils reduce friction and wear, which in turn, increase the efficiency of all lubricated parts. Depending on the application in question, a number of mineral oil viscosities can be substituted by **RENOLIN UNISYN CLP**.

### Application:

The **RENOLIN UNISYN CLP** series of oils are recommended for bearings, general lubrication systems and gearboxes if they are subject to high temperatures and severe thermal fluctuations.

Compared to mineral oil, oil change intervals with **RENOLIN UNISYN CLP** can be significantly extended if sump temperatures of around 90°C are commonplace. This considerably reduces operating and disposal operates at temperatures over 60°C is changed to **RENOLIN UNISYN CLP**, a viscosity should be selected which is one step lower than of the comparable mineral oil.

**RENOLIN UNISYN CLP** is recommended by BABCOCK for the lubrication of bearings in coal millers and by FLENDER for the lubrication gearboxes.

The **RENOLIN UNISYN CLP** series of oils surpass the DIN 51 517, part 3 specifications and being polyalphaoleine-based they are disposed - of similiary to mineral oils.

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Fire  
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# PRODUCT INFORMATION



## Characteristics

Classification		CLP 68 CLP HC	CLP 100 CLP HC	CLP 150 CLP HC	
Properties	Unit	68	100	150	
Density at 15OC	Kg / cm3	837	842	848	
Viscosity at 40OC at 100OC	mm2/s	68	100	150	
	mm2/s	11	15	19	
Viscosity Index		146	146	147	
Flash Point	OC	248	250	230	
Pour Point	OC	-51	-45	-45	
Neutralization number	mhKOH/g	0.9	0.9	0.9	
Steel corrosion, methods A+B	degree of corrosion	0	0	0	
Copper corrosion, 3 hours/100OC	degree of corrosion	1	1	1	
Four Ball app.	N	2200	2400	2400	
FZG A 8.3/90		>12	>12	>12	
FZG A 8.3/140		-	-	>12	

## Characteristics (cont.)

Classification		CLP 220 CLP HC	CLP 320 CLP HC	CLP 460 CLP HC	CLP 680 CLP HC	CLP 1000 CLP HC
Properties	Unit	220	320	460	680	1000
Density at 15OC	Kg/cm3	850	851	853	855	854
Viscosity at 40OC at 100OC	mm2/s	220	320	460	680	1000
	mm2/s	26	34	45	62	81
Viscosity Index		148	148	150	159	160
Flash point	OC	232	234	304	262	305
Pour point	OC	-41	-39	-33	-33	-33
Neutralization number	mhKOH/g	0.9	0.9	0.9	0.9	0.9
Steel Corrosion, methods A+B	degree of corr.	0	0	0	0	0
Copper Corrosion, 3 hours/100OC	degree of corr.	1	1	1	1	1
Four ball app.	N	2400	2400	2400	2400	2400
FZG A 8.3/90		>12	>12	>12	>12	> 12
FZG A 8.3/140		>12	>12	>12	>12	> 12

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